



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

D5473-1

Job Sheet 181472



Part No: D5473-1

Job Qty: 4 ea

Part Name: Fuel Gauge



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 7/27/18

Job Tracking No:

Due Date: 8/15/18

Created By: Diane Baker

Type: Stock

Description:

Note: D5473 REV.A IPP REV:A 17.10.19 NEW ISSUE DD VERF:DP

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Purchasing	4 pcs		8/15/18	0.00	0.00	Purchasing		AUG 16 2018
110	Packaging	4 pcs		8/15/18	0.00	0.00	Packaging2		AUG 16 2018
120	QC	4 pcs		8/15/18	0.00	0.00	QC6		38
130	Packaging	4 pcs		8/15/18	0.00	0.00	Packaging3-2	51244	9-89
140	QC21-SA	4 Ea		8/15/18	0.00	0.00	QC21		AUG 27 2018

Part Op 100 - Issue P/O: 040644 Purchase Part Number: TR-1FL-D1 Supplier: ELECTRONICS INTERNATIONAL INC.

Descriptions: Certificate of conformity is required

110 - Receive & Inspect for Damage & Mat'l Certs

120 - QC6- All purchased or subcontracted products

130 - Identify as per dwg & Stock Location: _____

140 - QC21- Final Inspection - Work Order Release

DAS AUG 28 2018
21
9-89
colB

JUL 30 2018

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
TR-1FL-D1	Fuel Gauge	4 Ea (1 ea)	100-Purchasing	S102785

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
100-Purchasing	TR-1FL-D1	4	1	0

Part Specifications

Specifications could not be found.



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Plex 7/27/18 2:02 PM dart.baker.diane

Container No: S102788



Part: D5473-1

Job No: 181472

Serial No/Batch: S102788

Revision: A

Inspector:

Exp Date:

Instructions: Various STC's

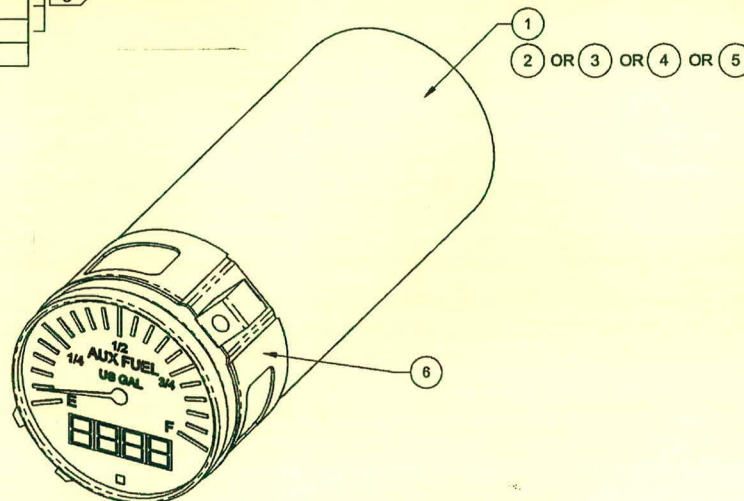
Date: 08/16/19

8105 3 1 2018
8105 3 1 2018

8105 3 1 2018

8105 3 1 2018

ITEM	QTY -041	QTY -043	QTY -045	QTY -047	P/N	DESCRIPTION
	X				D5473-041	FUEL GAUGE ASSEMBLY D350-794-011 INSTALLATION
		X			D5473-043	FUEL GAUGE ASSEMBLY D130-794-021 INSTALLATION
			X		D5473-045	FUEL GAUGE ASSEMBLY D350-794-111 INSTALLATION
				X	D5473-047	FUEL GAUGE ASSEMBLY D130-794-121 INSTALLATION
1	1	1	1	1	D5473-1	FUEL GAUGE
2	1				D350-794-CAL1	AS350 CALIBRATION FILE
3		1			D130-794-CAL1	EC130 CALIBRATION FILE
4			1		D350-794-CAL2	AS350 CALIBRATION FILE
5				1	D130-794-CAL2	EC130 CALIBRATION FILE
6	1	1	1	1	MS28042-1A	CLAMP - INSTRUMENT MOUNT



D5473-04X FUEL GAUGE ASSEMBLY

NOTES:

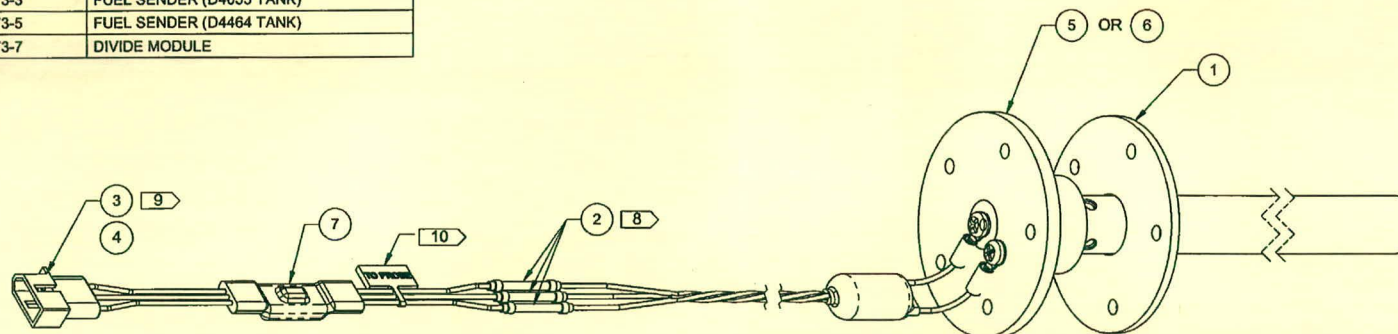
- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: N/A
- 4) UNITS: N/A
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D5473-04X" PER QSI 044 6.1
- 7) WEIGHT: N/A
- 8) LOAD CALIBRATION FILE PER THE INSTRUCTIONS FOUND IN SECTION 6.2 OF THE CALIBRATION PROCEDURE CAL-D350-794-1 Rev A, OR LATER APPROVED REVISION.

RELEASED
2017-10-06
ECN 12-687

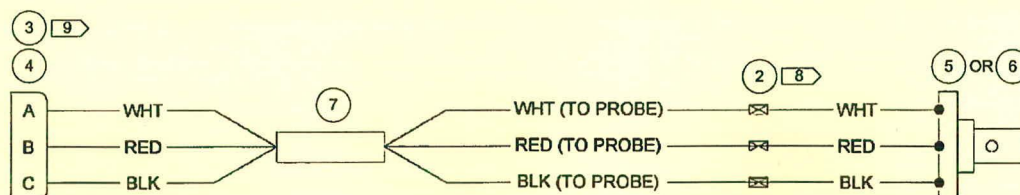
APPROVED

A	NEW ISSUE	WK	17.07.04
REV.	DESCRIPTION	BY	DATE
DESIGN	WK	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	WK	REV. A	
CHECKED	RF	DRAWING NO.	SHEET 1 OF 5
MFG. APPR.	RQ	D5473	SCALE
APPROVED	HS	TITLE	NTS
DE APPR.	DS	FUEL GAUGE & SENDER	
DATE	17.07.04	COPYRIGHT © 2017 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD	

ITEM	QTY -061	QTY -063	P/N	DESCRIPTION
	X		D5473-061	FUEL SENDER ASSEMBLY (D4055 TANK)
		X	D5473-063	FUEL SENDER ASSEMBLY (D4464 TANK)
1	1	1	D4025-3	GASKET
2	3	3	D4290-19	WIRE SPLICE (BLUE)
3	3	3	D4290-35	CRIMP PIN
4	1	1	D4290-41	PLUG HOUSING
5	1		D5473-3	FUEL SENDER (D4055 TANK)
6		1	D5473-5	FUEL SENDER (D4464 TANK)
7	1	1	D5473-7	DIVIDE MODULE



D5473-06X FUEL SENDER ASSEMBLY



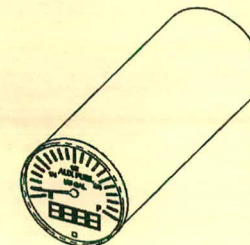
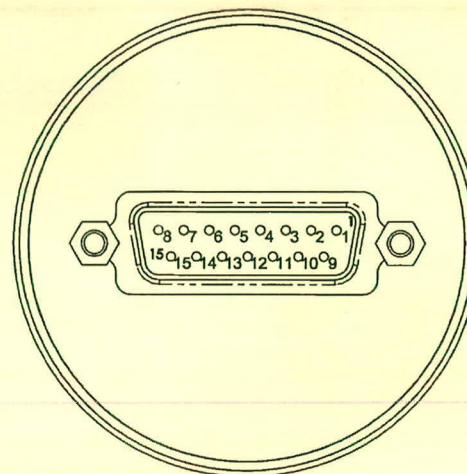
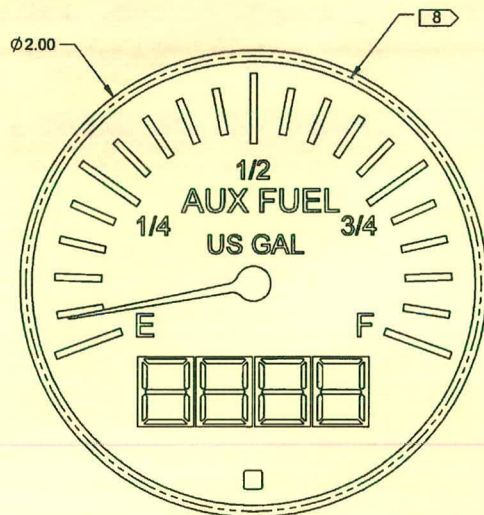
RELEASED
2017-10-06

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: N/A
- 4) UNITS: N/A
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D5473-06X" PER QSI 044 6.1
- 7) WEIGHT: N/A
- 8) CRIMP USING A RAYCHEM AD-1377 OR EQUIVALENT CRIMP TOOL
- 9) CRIMP USING A MOLEX 63819-1200 OR EQUIVALENT CRIMP TOOL, AND INSERT USING A MOLEX 11-02-0003 OR EQUIVALENT INSERTION TOOL
- 10) REMOVE "TO PROBE" LABEL AFTER ASSEMBLY

D5473-06X FUEL SENDER ASSEMBLY WIRING DIAGRAM

DESIGN	WK	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	WK		
CHECKED	RF	DRAWING NO. D5473	REV. A
MFG. APPR.	RQ		SHEET 2 OF 5
APPROVED	HS	TITLE FUEL GAUGE & SENDER	SCALE NTS
DE APPR.	DS		
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- PIN CALLOUT:
- 1 - POWER IN (14 OR 28 VDC)
 - 2 - RS-232 TX OUT TO DB9 PIN 2
 - 3 - RS-232 RX IN TO DB9 PIN 3
 - 4 - CONSTANT POWER, OPTIONAL (9 TO 28 VDC)
 - 5 - YELLOW CAUTION OUT
 - 6 - EXTERNAL SWITCH INPUT
 - 7 - P-300C (BLACK) TO P-300C/4 MODULE (GROUND)
 - 8 - NOT USED
 - 9 - GROUND
 - 10 - GROUND TO DB9 PIN 5
 - 11 - GROUND
 - 12 - RED WARNING OUT
 - 13 - BACKLIGHT CONTROL (0 TO 40 VDC)
 - 14 - P-300C (RED) TO P-300C/4 MODULE (5 VDC)
 - 15 - P-300C (WHITE) TO P-300C/4 MODULE (SIGNAL)

D5473-X FUEL GAUGE

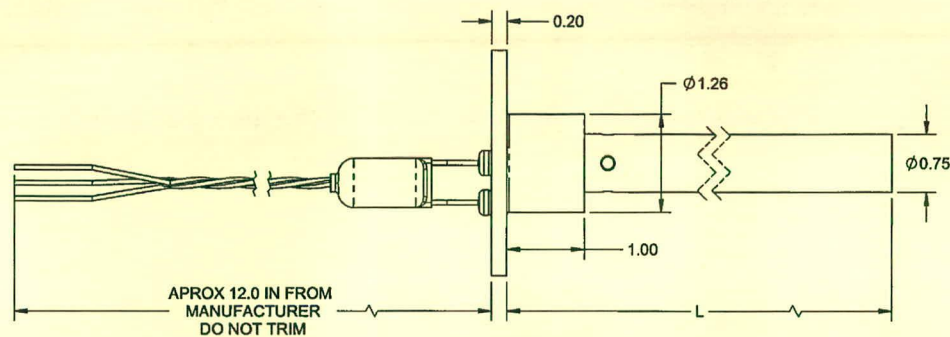
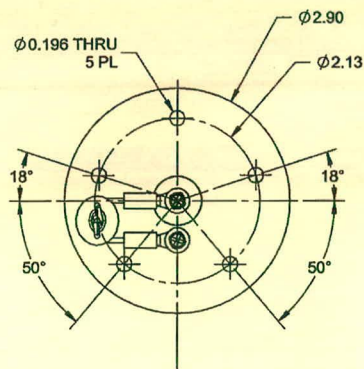
DART PART NUMBER	MANUFACTURER	MANUFACTURER PART NUMBER	OPERATING TEMPERATURE	POWER CONSUMPTION	OPERATING VOLTAGE	TECHNICAL STANDARD ORDER	ENVIRONMENTAL QUALIFICATION
D5473-1	ELECTRONICS INTERNATIONAL INC.	TR-1FL-D1	-40°C TO +70°C -40°F TO 158°F	6 TO 55 VOLTS, 0.075 AMPS	28 VDC	TSO-C55A	DO-160G

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.30lbs
- 8) WHITE GRAPHICS ON BLACK BACKGROUND

RELEASED
2017-10-06

DESIGN	WK	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	WK		
CHECKED	RF	DRAWING NO.	REV. A
MFG. APPR.	RQ	D5473	SHEET 3 OF 5
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	FUEL GAUGE & SENDER	NTS
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D5473-X FUEL SENDER

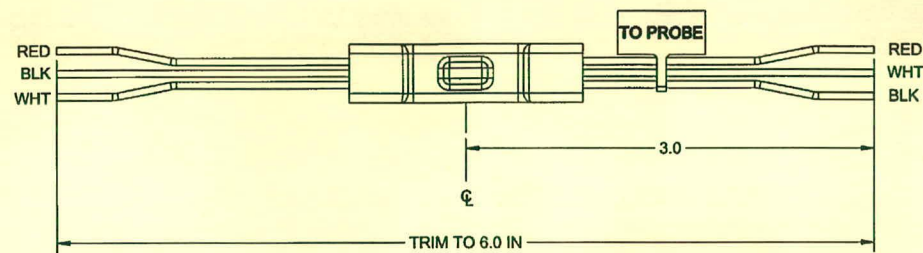
DART PART NUMBER	ASSOCIATED TANK ASSEMBLY	MANUFACTURER	MANUFACTURER PART NUMBER	LENGTH "L" (INCHES)	WEIGHT (LBS)	TECHNICAL STANDARD ORDER (TSO)	ENVIRONMENTAL QUALIFICATION
D5473-3	D4055	ELECTRONICS INTERNATIONAL INC	P-300C-D1	25.50	0.51	TSO-C55A	DO-160G
D5473-5	D4464	ELECTRONICS INTERNATIONAL INC	P-300C-D3	23.63	0.50	TSO-C55A	DO-160G

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: SEE TABLE
- 8) RECEIVING INSPECTION REQUIREMENTS:
 - a) INSPECT FOR VISUAL DAMAGE
 - b) OVERALL CYLINDER LENGTH - SEE TABLE

RELEASED
2017-10-06
APPROVED

DESIGN	WK	DART AEROSPACE LTD	
DRAWN	WK	HAWKESBURY, ONTARIO, CANADA	
CHECKED	RF	DRAWING NO.	REV. A
MFG. APPR.	RQ	D5473	SHEET 4 OF 5
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	FUEL GAUGE & SENDER	NTS
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D5473-X DIVIDE MODULE

DART PART NUMBER	DESCRIPTION	MANUFACTURER	MANUFACTURER PART NUMBER	LENGTH "L" (INCHES)	WEIGHT (LBS)
D5473-7	DIVIDE MODULE	ELECTRONICS INTERNATIONAL INC	P-300C/4	N/A	0.05

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: SEE TABLE
- 8) INSPECT FOR VISUAL DAMAGE
- 9) THIS PART IS INCLUDED WITH THE FUEL SENDER

APPROVED

DESIGN	WK	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	WK		
CHECKED	RF	DRAWING NO.	REV. A
MFG. APPR.	RQ	D5473	SHEET 5 OF 5
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	FUEL GAUGE & SENDER	NTS
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Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO040644

Supplier: ELI001-VU
Electronics International Inc.
63296 Powell Butte Hwy
Bend, OR 97701 USA
Phone: 541-318-6060
Fax: 541-318-7575

PO No: PO040644

PO Date: 7/30/18

Due Date: 8/13/18

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Baker, Diane
Phone: dbaker@dartaero.com

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments: Procurement Quality Clauses
A005 RIGHT OF ENTRY
A016 PERSONNEL QUALIFICATION
A018 ELECTRICAL EQUIPMENT
A025 CERTIFICATION OF CONFORMANCE
A040 NOTIFICATION OF QUALITY ESCAPE
A042 DART NOTIFICATION BY SUPPLIER
A043 RETENTION OF QUALITY
DOCUMENTS

E-MAILED
AUG 01 2018
Boyle

Items

Line Item	Job	Part	Supplier Part No	Item No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1		TR- 1FL- D1			Fuel Gauge As per Dwg D5473 Rev. A	Firmed	-	8/13/18	4 Ea	0 Ea	4 Ea	\$795.00/Ea	\$3,180.00
4 X AUG 16 2018													
Grand Total:												\$3,180.00	

Order Notes

Plex 8/1/18 3:16 PM dart.baker.diane

DAL
38
9-89

From: Electronics International Inc.
63296 Powell Butte Highway
Bend, OR 97701
Phone: (541) 318-6060 Fax: (541) 318-7575
www.Buy-EI.com
Support@Buy-EI.com

Invoice #: 150145
Date: 08/02/2018
Time: 07:51
Sales Person: DP
Dealer: Y 2646
Drop Ship: N
Type: S B 08/10/2018

Ship to: Dart Aerospace Ltd.
1270 Aberdeen St.

Bill to:

Hawkesbury

ON K6A 1K7

P/O: 040644

Terms: Net 15

Card #:

Ship Via: FedEx Int'l Pri

Phone: 613-632-9577

QTY	B/O	Shipped	Description	Price	Total
4 ✓		4	TR-1FL-D1 Pkg ✓	\$795.00	\$3180.00
1 ✓		1	C of C ✓	N/C	
			Packaging and Handling Fee 151 793 24	\$15.00	\$15.00
				Total:	\$3195.00

DAS
38
9-88

Any EI product installed on a certified aircraft must be installed in accordance with an applicable EI STC. All accessories must only be connected to an EI product. Sorry, no refunds on some custom items (special marked instruments, custom cables, etc.)

Shipper: AS

Shipped via: FedEx Int'l Pri

Date Shipped: 08/14/2018

AP#:

Trk #:

442749750674

RO4

**** PLEASE PAY FROM THIS INVOICE ****



Electronics International, Inc.

63296 Powell Butte Highway
Bend, OR 97701 USA

Invoice Number: 150145

Customer P/O: 040644

Company: Dart Aerospace Ltd.

Phone: (541) 318-6060

www.Buy-Ei.com

[illegible]

I certify that the item(s) listed above meet or exceed the requirements of Electronics International's drawings and specifications. The TSO marked item(s) are in accordance with applicable Technical Standard Orders inclusive markings, have been tested appropriately and are in condition for installation.

Date of Conformance: 8/14/2018

Conformed By: _____

Andrea Snow

